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<110> Roche Diagnostics Operations, Inc.

<120> Optimised Protein Synthesis

<130> 21556

<140> PCT/EP03/013964

<141> 2003-12-09

<160> 57

<170> PatentIn Ver. 2.1

<210> 1

<211> 84

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer C

<400> 1

gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttaa gaaggagata tacc 84

<210> 2

<211> 71

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer D

<400> 2

caaaaaaccc ctcaagaccc gtttagaggc cccaaggggg gccgccagtg tgctgaattc 60
gccttttatt a 71

<210> 3

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A
without hairpinloop

<400> 3

aggagatata ccatgactag caaaggagaa 30

<210> 4

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A
Stem Length 4 bp

<400> 4

aggagatata ccatgactaa ttttagtact agcaaaggag aa 42

<210> 5

SEQUENCE LISTING.txt

<211> 45
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A
 Stem Length 5 bp

<400> 5
 aggagatata ccatgactgt ttatacagta actagcaaag gagaa 45

<210> 6
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A
 Stem Length 6 bp

<400> 6
 aggagatata ccatgactgg tcaattacca gtaactagca aaggagaa 48

<210> 7
 <211> 51
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A
 Stem Length 7 bp

<400> 7
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<210> 8
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A
 Stem Length 8 bp

<400> 8
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<210> 9
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer B

<400> 9
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<210> 10
 <211> 60
 <212> DNA
 <213> Artificial Sequence

SEQUENCE LISTING.txt

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<220>
<223> Description of Artificial Sequence:Primer A

<400> 10
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<210> 11
<211> 63
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 11
aggagatata ccatgactag caaaactgca cgtgcatcgt gcagtgtagg agaagaactt 60
ttc                                                                 63

<210> 12
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 12
aggagatata ccatgactag caaaggaact gcacgtgcat cgtgcagtgt agaagaactt 60
ttcact                                                                 66

<210> 13
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 13
aggagatata ccatgactag caaaggagaa actgcacgtg catcgtgcag tgtagaactt 60
ttcactgga                                                                 69

<210> 14
<211> 72
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A

<400> 14
aggagatata ccatgactag caaaggagaa gaaactgcac gtgcatcgtg cagtgtactt 60
ttcactggag tt                                                                 72

<210> 15
<211> 75
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence:Primer A

<400> 15

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SEQUENCE LISTING.txt

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ttcactggag ttgtc 75

<210> 16
<211> 71
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer D

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ttagtttatt a 71

<210> 17
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 17
aggagatata ccatgaaata tacatattct ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 18
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 18
aggagatata ccatgaaaac atattattct ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 19
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 19
aggagatata ccatgaaata ttcttataca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 20
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 20
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<210> 21
<211> 60
<212> DNA

SEQUENCE LISTING.txt

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A Variant

<400> 21

aggagatata ccatgaaata tacatattca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 22

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A Variant

<400> 22

aggagatata ccatgaaaac atattattca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 23

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A Variant

<400> 23

aggagatata ccatgaaata ttcatataca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 24

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A Variant

<400> 24

aggagatata ccatgaaata ttattcaaca ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 25

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer A Variant

<400> 25

aggagatata ccatgcatca tcattcatcat ctgcacgtga tcgtgcaggc taacaccgcg 60

<210> 26

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer wildtype

<400> 26

aggagatata ccatggctaa caccgcg

27

SEQUENCE LISTING.txt

<210> 27
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer B

<400> 27
 aggattagtt tattaatgat gatgatgatg atggcgccgg gtgcgcga 48

<210> 28
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A Variant

<400> 28
 aggagatata ccatgaaata tacatattct ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 29
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A Variant

<400> 29
 aggagatata ccatgaaaac atattattct ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 30
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A Variant

<400> 30
 aggagatata ccatgaaata ttcttatata ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 31
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A Variant

<400> 31
 aggagatata ccatgaaata ttattctaca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 32
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:Primer A Variant

SEQUENCE LISTING.txt

<400> 32
aggagatata ccatgaaata tacatattca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 33
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 33
aggagatata ccatgaaaac atattattca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 34
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 34
aggagatata ccatgaaata ttcataata ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 35
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 35
aggagatata ccatgaaata ttattcaaca ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 36
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A Variant

<400> 36
aggagatata ccatgcatca tcattcatct ctgcacgtga tcgtgcaggg tgccccgacg 60

<210> 37
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
wildtype

<400> 37
aggagatata ccatgggtgc cccgacg

27

<210> 38
<211> 49
<212> DNA

SEQUENCE LISTING.txt

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer B

<400> 38

aggattagtt tattaatgat gatgatgatg atgatccatg gcagccagc

49

<210> 39

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer

<400> 39

aggagatata ccatgaaata tacatattct ctgcacgtga tcgtgcagga gttggggccc 60

<210> 40

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer

<400> 40

aggagatata ccatgaaaac atattattct ctgcacgtga tcgtgcagga gttggggccc 60

<210> 41

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer

<400> 41

aggagatata ccatgaaata ttcttataca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 42

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer

<400> 42

aggagatata ccatgaaata ttattctaca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 43

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Primer

<400> 43

aggagatata ccatgaaata tacatattca ctgcacgtga tcgtgcagga gttggggccc 60

SEQUENCE LISTING.txt

<210> 44
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 44
aggagatata ccatgaaaac atattattca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 45
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 45
aggagatata ccatgaaata ttcatatata ctgcacgtga tcgtgcagga gttggggccc 60

<210> 46
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 46
aggagatata ccatgaaata ttattcaaca ctgcacgtga tcgtgcagga gttggggccc 60

<210> 47
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer

<400> 47
aggagatata ccatgcatca tcatcatcat ctgcacgtga tcgtgcagga gttggggccc 60

<210> 48
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Primer A
wildtype

<400> 48
aggagatata ccatggagtt ggggccc 27

<210> 49
<211> 45
<212> DNA
<213> Artificial Sequence

<220>

SEQUENCE LISTING.txt

<223> Description of Artificial Sequence:Primer B

<400> 49
aggattagtt tattattaat gatgatgatg atgatgagaa ccccc 45

<210> 50
<211> 431
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Expression construct for mutant 1

<400> 50
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttta gaaggagata taccatgaaa tatacatatt ctctgcacgt gatcgtgcag 120
gctaaccacg cgccgggacc cacggtggcc aacaagcggg acgaaaaaca ccgtcacgtc 180
gttaacgctg ttttgagct gccgaccgag atatcagagg ccacccaccc ggtgttgacc 240
accatgctga gcaagtacac gcgcatgtcc agcctgttta atgacaagtg cgcctttaag 300
ctggacctgt tgcgcatggt agccgtgtcg cgcacccggc gccatcatca tcatcatcat 360
taataaacta atccttaaca ttctactccc aacccttgg ggccctctaa cgggtcttga 420
ggggtttttt g 431

<210> 51
<211> 398
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Expression construct for wildtype

<400> 51
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttta gaaggagata taccatggct aacaccgcgc cgggaccac ggtggccaac 120
aagcgggacg aaaaacaccg tcacgtcgtt aacgtcgttt tggagctgcc gaccgagata 180
tcagaggcca cccacccggt gttggccacc atgctgagca agtacacgcg catgtccagc 240
ctgttttaag acaagtgcgc ctttaagctg gacctgttgc gcatggtagc cgtgtcgcgc 300
accgggcgcc atcatcatca tcatcattaa taaactaatc cttaacattc tactcccaac 360
cccttggggc ctctaaacgg gtcttgaggg gttttttg 398

<210> 52
<211> 632
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Expresion construct for mutant 1

<400> 52
gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
ttaactttta gaaggagata taccatgaaa tatacatatt ctctgcacgt gatcgtgcag 120
ggtgccccga cgttgccccc tgccctggcag ccctttctca aggaccaccg catctctaca 180
ttcaagaact ggcccttctt ggagggtgc gcctgcaccc cggagcggat ggccgaggct 240
ggcttcatcc actgccccac tgagaacgag ccagacttgg cccagtgttt cttctgcttc 300
aaggagctgg aaggctggga gccagatgac gaccccatag aggaacataa aaagcattcg 360
tccggttgcg ctttcctttc tgtcaagaag cagtttgaag aattaaccct tgggtgaattt 420
ttgaaactgg acagagaaag agccaagaac aaaattgcaa aggaaaccaa caataagaag 480
aaagaatttg aggaactgc gaagaaagtgc cgccgtgcc tgcagcagct ggctgccatg 540
gatcatcatc atcatcatca ttaataaact aatccttaac attctactcc caacccttg 600
gggcctctaa acgggtcttg aggggttttt tg 632

SEQUENCE LISTING.txt

<210> 53
 <211> 599
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 Expression construct for wildtype

<400> 53
 gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
 ttaactttta gaaggagata taccatgggt gccccgacgt tgccccctgc ctggcagccc 120
 tttctcaagg accaccgcat ctctacattc aagaactggc ctttcttgga gggctgcgcc 180
 tgcaccccg agcgatggc cgaggctggc ttcattccact gccccactga gaacgagcca 240
 gacttgccc agtgtttctt ctgcttcaag gagctggaag gctgggagcc agatgacgac 300
 cccatagagg aacataaaaa gcattcgtcc ggttgcgctt tcctttctgt caagaagcag 360
 tttgaagaat taacccttgg tgaatttttg aaactggaca gagaaagagc caagaacaaa 420
 attgcaaagg aaaccaacaa taagaagaaa gaatttgagg aaactgcgaa gaaagtgcgc 480
 cgtgccatcg agcagctggc tgccatggat catcatcatc atcatcatta ataaactaat 540
 ccttaacatt ctactcccaa ccccttgggg cctctaaacg ggtcttgagg ggttttttg 599

<210> 54
 <211> 1400
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 Expression construct for mutant 1

<400> 54
 gaaattaata cgactcacta tagggagacc acaacggttt ccctctagaa ataattttgt 60
 ttaactttta gaaggagata taccatgaaa tatacatatt ctctgcacgt gatcgtgcag 120
 gagttggggc ccctagaagg tggctacctg gagcttctta acagcgatgc tgacccccctg 180
 tgcctctacc acttctatga ccagatggac ctggctggag aagaagagat tgagctctac 240
 tcagaacccg acacagacac catcaactgc gaccagttca gcaggctgtt gtgtgacatg 300
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 gaagtgatcg gtgagagtat ggagatgcc aagcactgga agccagctga gccccccact 480
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 cccatccagt ttgtccccac catctccact ctgccccatg ggctctggca aatctctgag 780
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 ggggtcttgag gggttttttg 1400

<210> 55
 <211> 1367
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 Expression construct for wildtype

<400> 55

SEQUENCE LISTING.txt

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ttaactttta	gaaggagata	taccatggag	ttggggcccc	tagaagggtg	ctacctggag	120
cttcttaaca	gcgatgctga	ccccctgtgc	ctctaccact	tctatgacca	gatggacctg	180
gctggagaag	aagagattga	gctctactca	gaacccgaca	cagacacccat	caactgcgac	240
cagtttcagc	ggctgtttgt	tgacatggaa	ggtgatgaag	agaccagggg	ggcttatgcc	300
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cactggaagc	cagctgagcc	ccccactgtg	gtgactggca	gtctcctagt	gggaccagtg	540
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agcctggagc	gggaactggc	caccccggac	tgggcagaac	ggcagctggc	ccaaggaggc	1200
ctggctgagg	tgctgttggc	tgccaaggag	caccggcggc	cgcgtcgact	cgagcgagct	1260
cccggggggg	gttctcatca	tcatcatcat	cattaataat	aaactaatcc	ttaacattct	1320
actcccaacc	ccttggggcc	tctaaacggg	tcttgagggg	ttttttg		1367

<210> 56
 <211> 938
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial
 Sequence:Expression construct

<400> 56						
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actagcaaag	gagaagaact	tttactgga	gttgtcccaa	ttcttggtga	attagatggg	180
gatgttaatg	ggcacaaaat	ttctgtcagt	ggagagggtg	aagggtgatg	tacatacgga	240
aagcttacct	ttaaatttat	ttgcactact	ggaaaactac	ctgttccatg	gccaacactt	300
gtcactactt	tctcttatgg	tgttcaatgc	ttttccggtt	atccggatca	tatgaaacgg	360
catgactttt	tcaagagtgc	catgcccga	ggttatgtac	aggaacgcac	tatatctttc	420
aaagatgacg	ggaactacaa	gacgcgtgct	gaagtcaagt	ttgaagggtg	tacccttgtt	480
aatcgtatcg	agttaaaagg	tattgatttt	aaagaagatg	gaaacattct	cggacacaaa	540
ctcagagtaca	actataactc	acacaatgta	tatatcacgg	cagacaaaac	aaagaatgga	600
atcaaagcta	actttcaaat	tcgccacaac	attgaagatg	gatccgttca	actagcagac	660
cattatcaac	aaaatactcc	aattggcgat	ggccctgtcc	ttttaccaga	caaccattac	720
ctgtcgacac	aatctgccct	ttcgaaagat	cccaacgaaa	agagagacca	catggtcctt	780
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 <213> Artificial Sequence

<220>
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SEQUENCE LISTING.txt

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